

Appl. No. 10/294,024
Amdt. Dated 01/10/2008
Reply to Office action of 09/10/2007

REMARKS

Claims 1 and 2 are pending in the instant application.

Claim Rejections – 35 USC § 102 and 35 USC § 103

The Examiner stated that claims 1-2 are rejected under 35 U.S.C. 102(b) as being anticipated by Goodson et al. (5,636,244) and under 35 U.S.C. 103(a) as being unpatentable over Goodson et al. (5,636,244) in view of Tanrikulu (7,103,177).

Although Applicant does not believe that Goodson or Tanrikulu teach or suggest every element of the previously submitted claims, for example (emphasis added), calculating the coefficients for at least one *time domain filter* in a *decision feedback equalizer* based on the *channel impulse response*.

However, purely in the interest of expediting the prosecution of the instant invention, Applicant has amended the claims to substantially include the following limitations:

selecting a subset of the feed forward coefficients and a subset of the feedback coefficients wherein a number of coefficients in each subset is less than a total number of the determined coefficients;

wherein each coefficient in the subsets of the coefficients is selected based on an amplitude of the coefficient satisfying at least one of:

the amplitude is one of a largest coefficient amplitudes of the feed forward filter coefficients or the feedback filter coefficients; and

the amplitude is bigger than $K \cdot \sigma_{\text{sub.F}}$ or $K \cdot \sigma_{\text{sub.B}}$, where $\sigma_{\text{sub.F}}$ or $\sigma_{\text{sub.B}}$ are standard deviations of a subset of coefficients whose amplitudes are not one of the largest coefficient amplitudes of the feed forward filter coefficients or the feedback filter coefficients, wherein K is a threshold parameter that provides protection against coefficient computation noise.

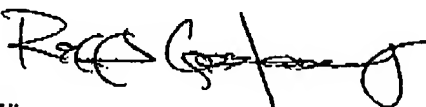
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Support for these limitations can be found at least in paragraphs 51 and 52 of the instant invention. Applicant does not believe these limitations are taught or suggested by Goodson or Tanrikulu and are thus in condition for allowance.

Respectfully submitted,

Date:

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